FIG.1

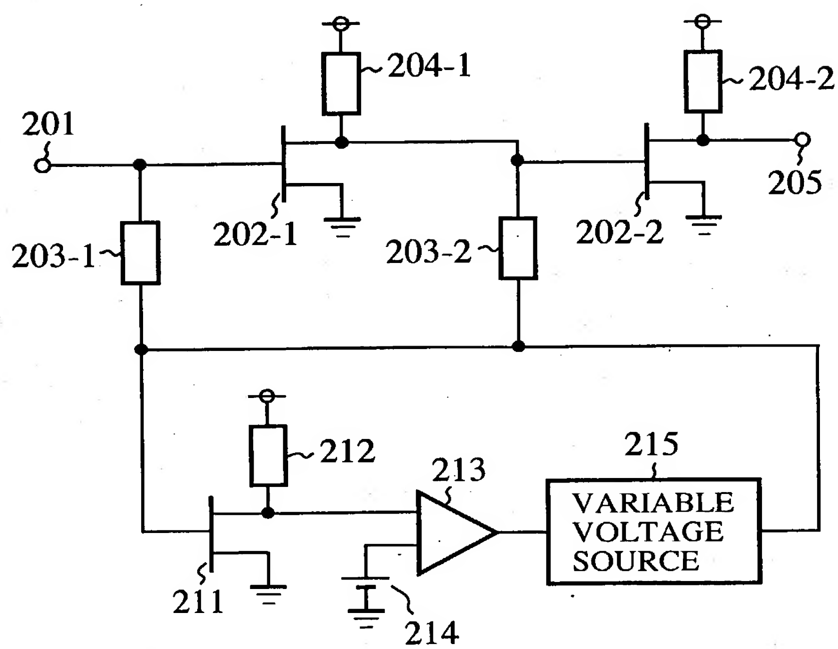

204-1
204-2
201
205
202-1
202-2
203-1
203-2
212
213
215
VARIABLE
VOLTAGE
SOURCE
211
214

FIG.3

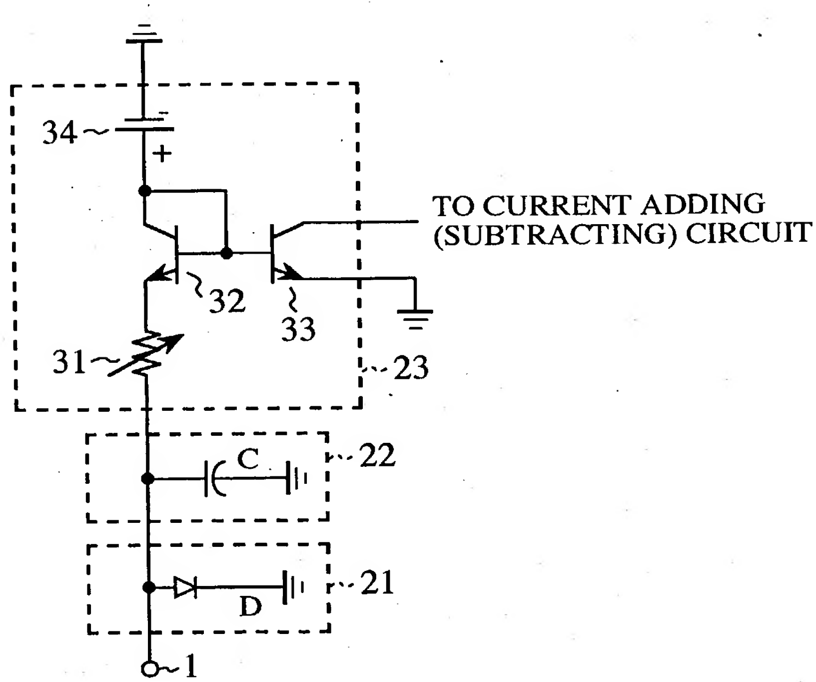

34
+
TO CURRENT ADDING
(SUBTRACTING) CIRCUIT
32
33
31
23
C
22
D
21
1

FIG.2

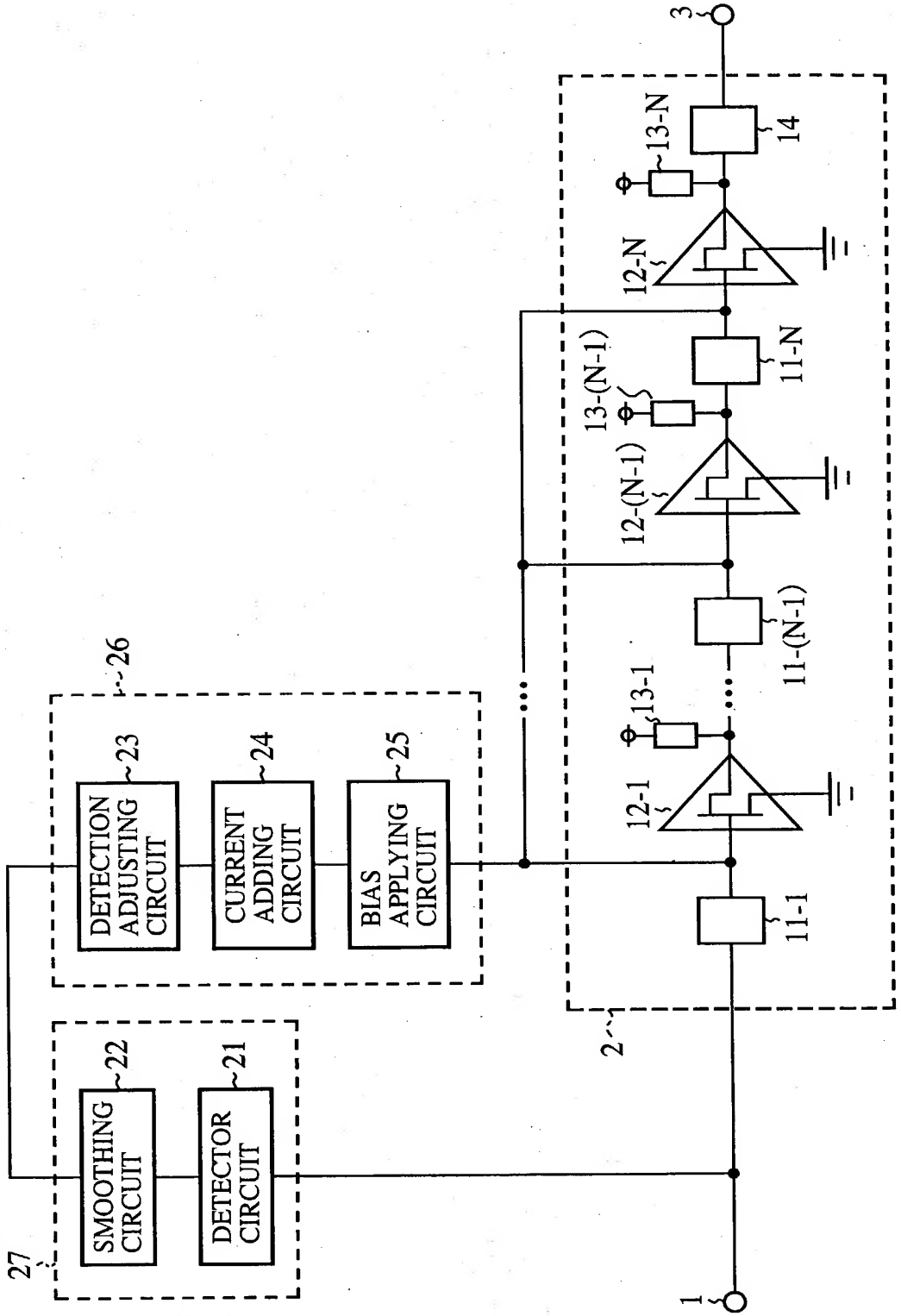

3
13-N
14
12-N
11-N
13-(N-1)
12-(N-1)
11-(N-1)
13-1
12-1
11-1
2
26
23
24
25
DETECTION ADJUSTING CIRCUIT
CURRENT ADDING CIRCUIT
BIAS APPLYING CIRCUIT
27
22
21
SMOOTHING CIRCUIT
DETECTOR CIRCUIT
1

FIG.4

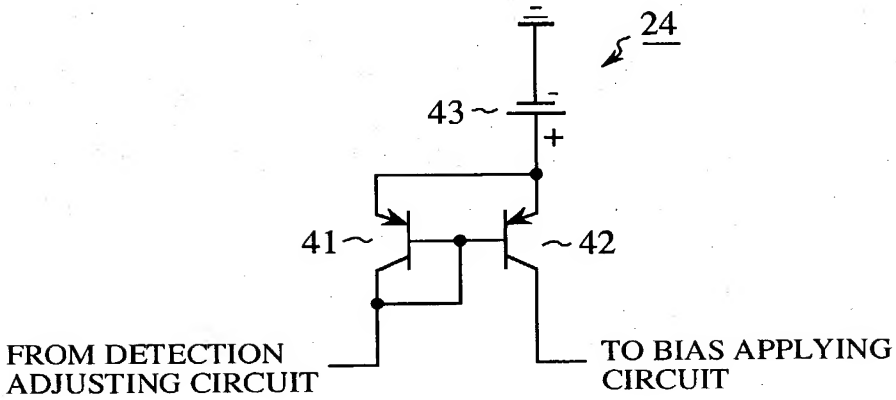
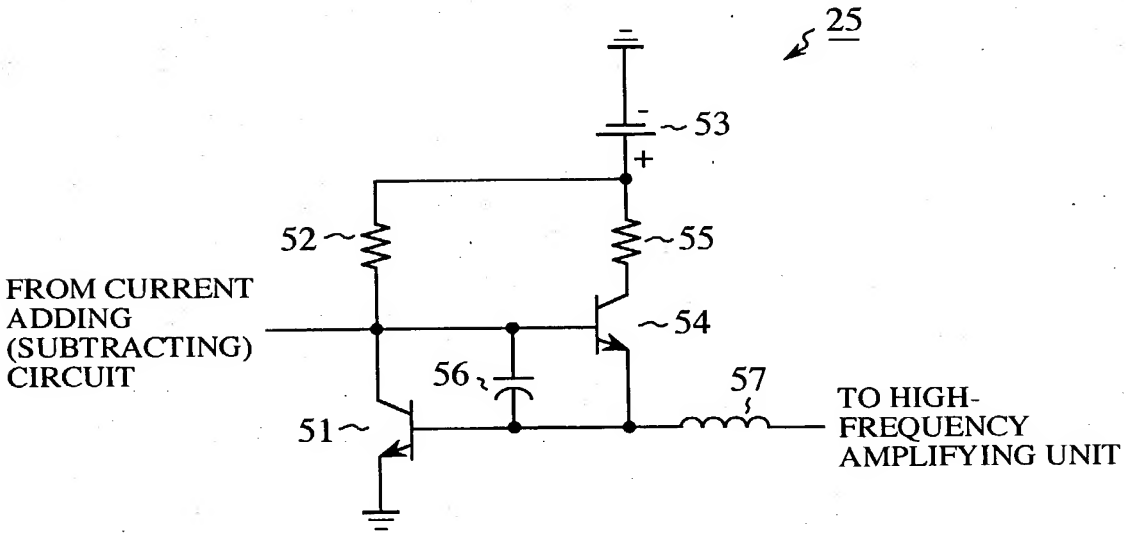

24
43
41
42
FROM DETECTION ADJUSTING CIRCUIT
TO BIAS APPLYING CIRCUIT

FIG.5


25
53
52
55
54
FROM CURRENT ADDING (SUBTRACTING) CIRCUIT
56
57
51
TO HIGH-FREQUENCY AMPLIFYING UNIT

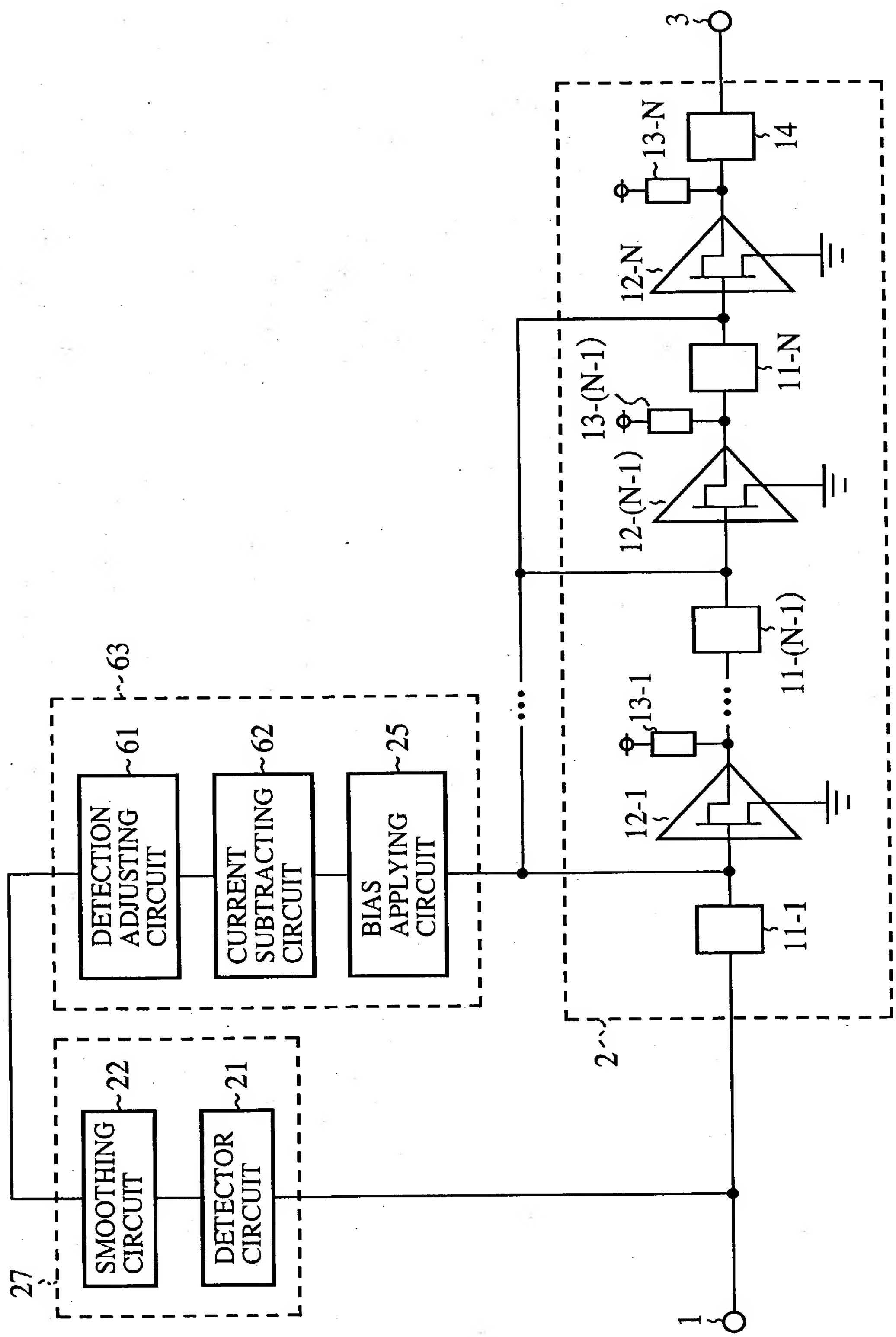

DETECTION ADJUSTING CIRCUIT
61
CURRENT SUBTRACTING CIRCUIT
62
BIAS APPLYING CIRCUIT
25
63
SMOOTHING CIRCUIT
22
DETECTOR CIRCUIT
21
27
1
2
3
11-1
12-1
13-1
11-(N-1)
12-(N-1)
13-(N-1)
11-N
12-N
13-N
14

FIG.6

FIG.7

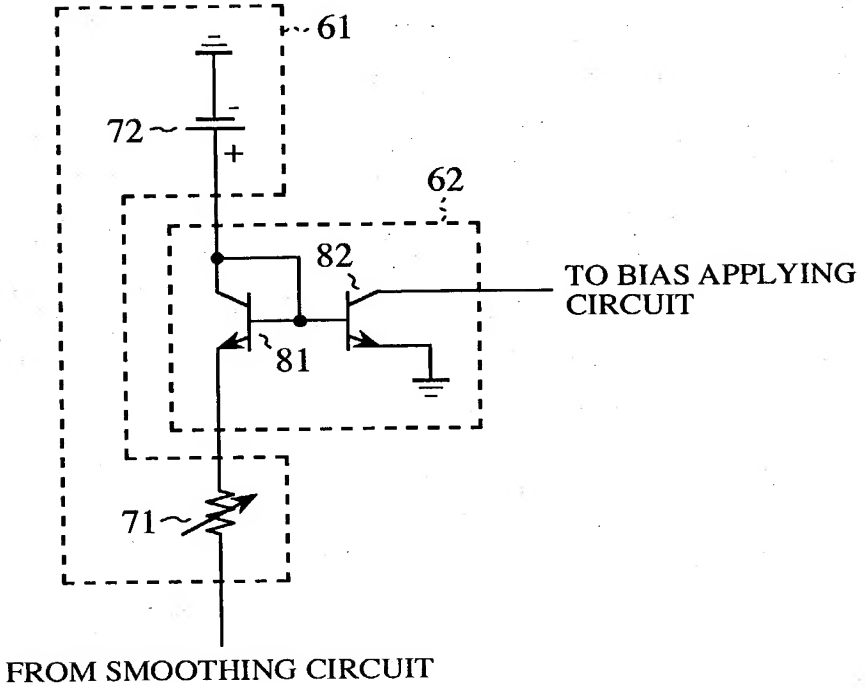

61
72
62
82
TO BIAS APPLYING CIRCUIT
81
71
FROM SMOOTHING CIRCUIT

FIG.12

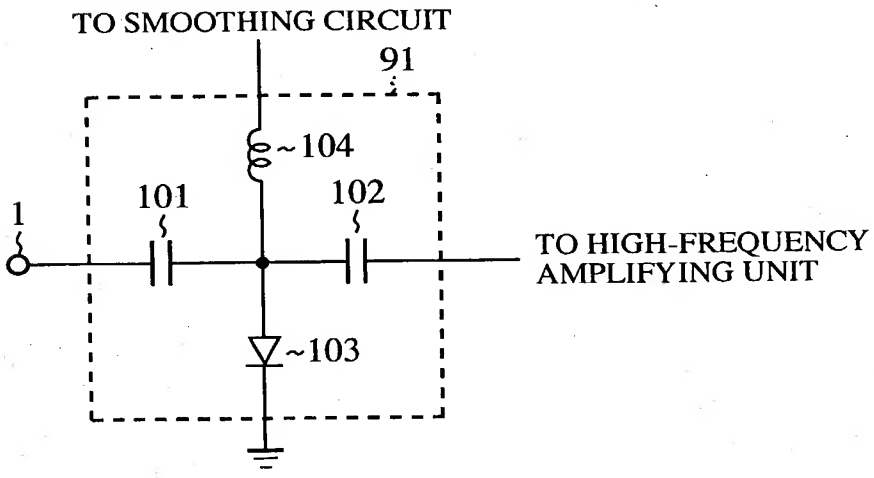

TO SMOOTHING CIRCUIT
91
104
101
102
1
TO HIGH-FREQUENCY AMPLIFYING UNIT
103

FIG.8

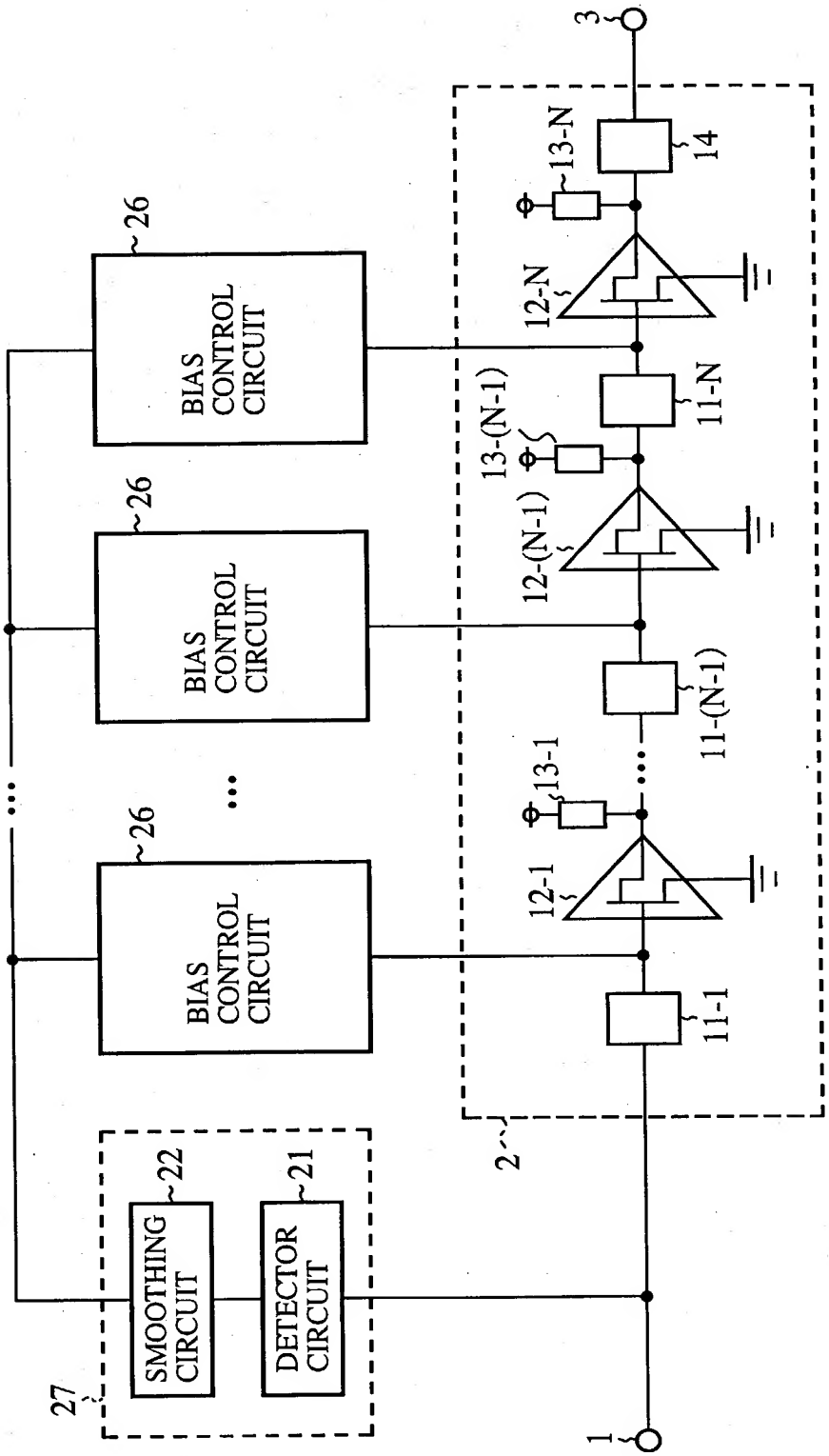

3
14
13-N
12-N
11-N
13-(N-1)
12-(N-1)
11-(N-1)
13-1
12-1
11-1
2
26
BIAS CONTROL CIRCUIT
26
BIAS CONTROL CIRCUIT
26
BIAS CONTROL CIRCUIT
22
SMOOTHING CIRCUIT
21
DETECTOR CIRCUIT
27
1

FIG.9

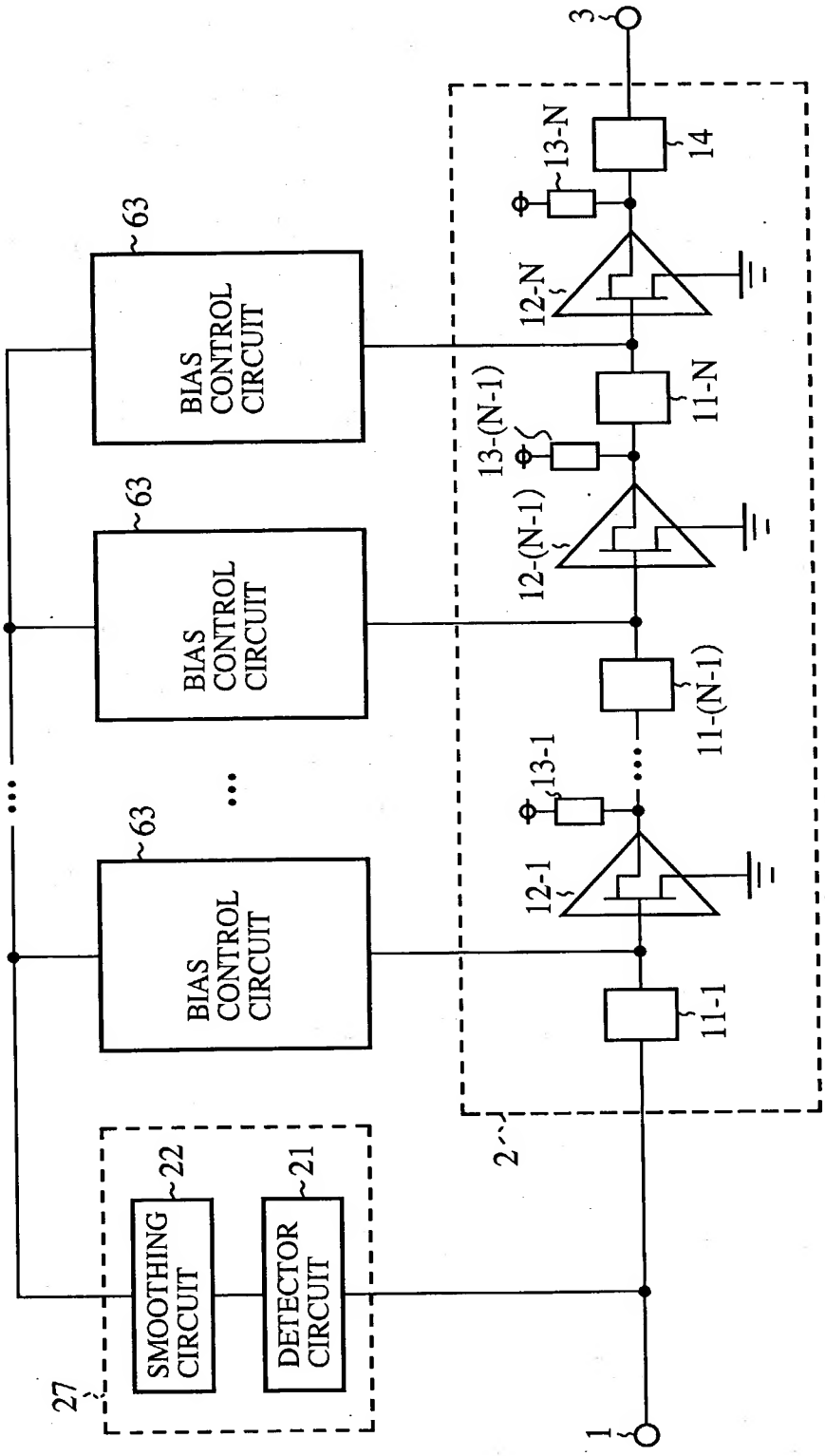

3
13-N
14
12-N
11-N
13-(N-1)
12-(N-1)
11-(N-1)
13-1
12-1
11-1
2
63
BIAS CONTROL CIRCUIT
63
BIAS CONTROL CIRCUIT
63
BIAS CONTROL CIRCUIT
22
SMOOTHING CIRCUIT
21
DETECTOR CIRCUIT
27
1

FIG.10

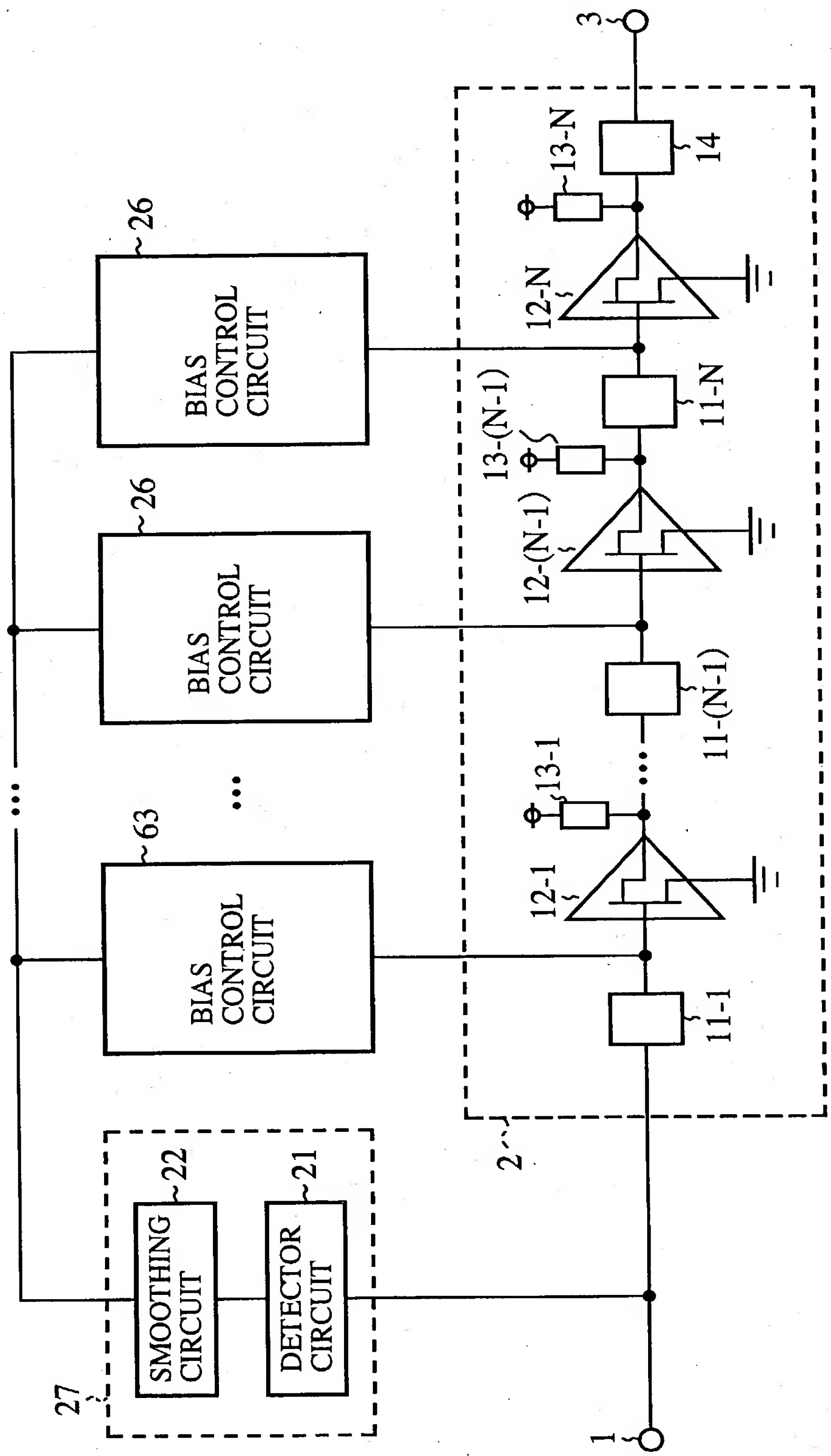
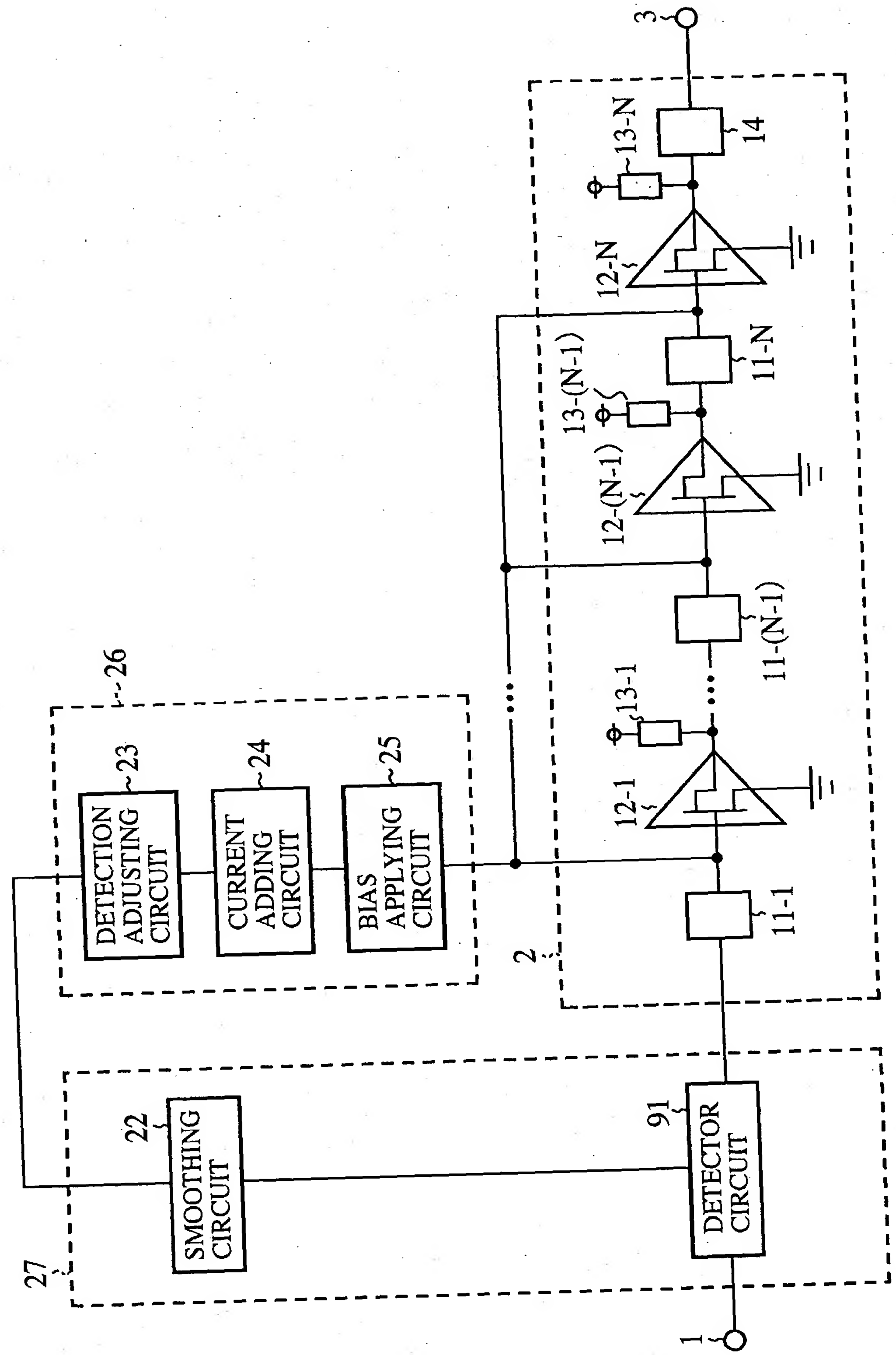

BIAS CONTROL CIRCUIT
BIAS CONTROL CIRCUIT
BIAS CONTROL CIRCUIT
SMOOTHING CIRCUIT
DETECTOR CIRCUIT
26
26
63
22
21
27
1
2
3
11-1
11-(N-1)
11-N
12-1
12-(N-1)
12-N
13-1
13-(N-1)
13-N
14

FIG.11


3
13-N
14
12-N
13-(N-1)
11-N
12-(N-1)
11-(N-1)
13-1
12-1
11-1
2
26
DETECTION ADJUSTING CIRCUIT
23
CURRENT ADDING CIRCUIT
24
BIAS APPLYING CIRCUIT
25
SMOOTHING CIRCUIT
22
DETECTOR CIRCUIT
91
27
1